IN THE CLAIMS

Please amend Claims 1-24 as indicated.

1. (Currently Amended) A self-contained reusable An electronic musculoskeletal stimulation

apparatus comprising:

a flexible housing conformable to a portion of a body, said housing being formed by one

or more layers of water resistant material;

a control circuit connected directly to two or more electrodes, wherein said control circuit

and said electrodes are substantially contained within the same housing; and

wherein said control circuit is surrounded by a layer of electrical insulation surrounding

at least a portion of the control circuit;

wherein said housing is formed by one or more layers of water resistant materials to form

a water resistant apparatus;

wherein said apparatus forms a flexible device that fits close to a body; and

wherein said apparatus is attachable to said body with adhesive comprising replaceable

one or more electrogel pads.

2. (Currently Amended) The self contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus has an adjustable voltage intensity which ranges

from approximately 90 volts to 180 volts.

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3. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus has an adjustable voltage intensity that includes a

low, a medium and a high intensity level.

4. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 3, wherein said low intensity level outputs approximately 90 to 99 volts.

5. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 3, wherein said body receives approximately 15 to 19.5 volts when said

apparatus is attached on said body and low intensity level is activated.

6. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 3, wherein said medium intensity level outputs approximately 100 to 150

volts.

7. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 3, wherein said body receives approximately 19.6 to 22.9 volts when said

apparatus is attached on said body and medium intensity level is activated.

8. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 3, wherein said high intensity level outputs approximately 155 to 180 volts.

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9. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 3, wherein said body receives approximately 23 to 27 volts when said

apparatus is attached on said body and high intensity level is activated.

10. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said housing is composed of polyvinylchloride.

11. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said housing is composed of thermoplastic material.

12. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus is powered by a 3 volt lithium battery.

13. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus outputs a square waveform at a constant current.

14. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus uses a frequency of approximately 0.1 to 4000

hertz.

15. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus uses a frequency of approximately 7 hertz.

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16. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus has a pulse-width of approximately 0.01

microseconds to 50 milliseconds.

17. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus has a pulse-width of approximately 45 milliseconds.

18. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus outputs approximately thirty pulses over a four

second duration.

19. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus includes at least two buttons, whereby the first

button powers said apparatus on and off and selects an intensity of said stimulation and the

second button activates said stimulation.

20. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said apparatus includes at least one indicator that displays the

status of said apparatus.

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21. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 20, wherein said apparatus includes three indicators whereby each indicator

corresponds to an intensity of stimulation and displays which intensity has been selected, when

said apparatus is delivering treatment, and what intensity treatment is being delivered to a

patient.

22. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein said electrogel pads are composed of hydrogel.

23. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 22, wherein said electrogel pads adhere to the body and the apparatus by the

adhesive properties of the hydrogel.

24. (Currently Amended) The self-contained reusable electronic musculoskeletal stimulation

apparatus of claim 1, wherein each of said one or more electrogel pads are secured to the

apparatus by use of a fastening arrangement where a male component is located on either one of

the apparatus or a backside of the electrogel pad and couples with a female component which is

located on the eorresponding other of the apparatus or backside of the electrogel pad.

Claims 25-47. Withdrawn.